ELSEVIER

Biomembranes

Vol. 1238, 1995

BBA Biochimica et Biophysica Acta

Cumulative Contents

Publisher's Note vii

Information for Contributors ix

Regular Papers

The determination of binding constants of micellar-packaged gramicidin A by ^{13}C-and ^{23}Na-NMR
N. Jing, K.U. Prasad and D.W. Urry (USA) 1

Ion pair binding of Ca^{2+} and Cl^- ions in micellar-packaged gramicidin A
N. Jing and D.W. Urry (USA) 12

Partition of DDE in synthetic and native membranes determined by ultraviolet derivative spectroscopy
R.A. Videira, M.C. Antunes-Madeira, J.B.A. Custódio and V.M.C. Madeira (Portugal) 22

Uptake and metabolism of Δ^1-piperidine-2-carboxylic acid by synaptosomes from rat cerebral cortex
Y.-F. Chang and A.K. Charles (USA) 29

Actinobacillus actinomycetemcomitans leukotoxin forms large conductance, voltage-gated ion channels when incorporated into planar lipid bilayers
J.D. Lear, U.G. Furblur, E.T. Lally and J.C. Tanaka (USA) 34

Molecular miscibility of phosphatidylcholine and phosphatidylethanolamine in binary mixed bilayers with acidic phospholipids studied by ^{2}H- and ^{31}P-NMR
K.-h. Shin, H. Maeda, T. Fujiwara and H. Akutsu (Japan) 42

Beta-amino acid transport in pig small intestine in vitro by a high-affinity, chloride-dependent carrier
L.K. Munck, M.L. Grøndahl and E. Skadhauge (Denmark) 49

Localization of dipyridamole molecules in ionic micelles: effect of micelle and drug charges
I.E. Borissevitch, C.P.F. Borges, V.E. Yushmanov and M. Tabak (Brazil) 57

Kinetic and energetic characterization of solute flux through the reconstituted aspartate/glutamate carrier from beef heart mitochondria after modification with mercurials
K. Herick and R. Krämer (Germany) 63

Binding of antibodies to functional epitopes on the pore formed by *Escherichia coli* hemolysin in cells and model membranes
G. Menestrina, M. Ropele, M. Dalla Serra, C. Pederzolli, F. Hugo, S. Pellet and R.A. Welch (Italy, Germany, USA) 72

Dimensional distribution of human erythrocytes obtained from electropermeabilization experiments
I. Turcu and S. Neamtu (Romania) 81

Rapid Reports

Real-time analysis of liposomal trafficking in tumor-bearing mice by use of positron emission tomography
N. Oku, Y. Tokudome, H. Tsukada and S. Okada (Japan) 86

A trans-membrane pore can account for protein movement across zymogen granule membranes
K.K. Goncz and S.S. Rothman (USA) 91

Short Sequence-Paper

The V-ATPase *A* subunit gene (*vma-1*) from *Giardia lamblia*
E. Hilario and J.P. Gogarten (USA) 94

Publisher's Note v

Regular Papers

Real-time PET analysis of metastatic tumor cell trafficking in vivo and its relation to adhesion properties
C. Koike, N. Oku, M. Watanabe, H. Tsukada, T. Kakiuchi, T. Irimura and S. Okada (Japan) 99

Transport of competing Na and K ions by (222)C_{10}-cryptand, an ionizable mobile carrier: effects of pH and temperature
A. Loiseau, M. Hill, L. René-Corail and M. Castaing (France) 107

Lateral domain heterogeneity in cholesterol/phosphatidylcholine monolayers as a function of cholesterol concentration and phosphatidylcholine acyl chain length
J.P. Slotte (Finland) 118

Ascorbate is the major electron donor for a transmembrane oxidoreductase of human erythrocytes
J.M. May, Z.-c. Qu and R.R. Whitesell (USA) 127

Verapamil competes with doxorubicin for binding to anionic phospholipids resulting in increased internal concentrations and rates of passive transport of doxorubicin
G. Speelmans, R.W.H.M. Staffhorst, F.A. De Wolf and B. De Kruijff (The Netherlands) 137

The cationic lipid stearylamine reduces the permeability of the cationic drugs verapamil and prochlorperazine to lipid bilayers: implications for drug delivery
M.S. Webb, J.J. Wheeler, M.B. Bally and L.D. Mayer (Canada) 147

Osmotic stress sensitizes sterol-free phospholipid bilayers to the action of Amphotericin B
B.D. Wolf and S.C. Hartsel (USA) 156

Molecular order and dynamics of phosphatidylcholine bilayer membranes in the presence of cholesterol, ergosterol and lanosterol: a comparative study using ^{2}H-, ^{13}C- and ^{31}P-NMR spectroscopy
J.A. Urbina, S. Pekerar, H.-b. Le, J. Patterson, B. Montez and E. Oldfield (USA, Venezuela) 163

Generation of giant protoplasts of *Escherichia coli* and an inner-membrane anion selective conductance
A. Kubalski (USA) 177

Charge determination of membrane molecules in polymer-supported lipid layers
C. Dietrich and R. Tampé (Germany) 183

Short Sequence-Paper

cDNA cloning of MCT1, a monocarboxylate transporter from rat skeletal muscle
V.N. Jackson, N.T. Price and A.P. Halestrap (UK) 193

Corrigendum 197

Cumulative Contents, Vol. 1238 199

Author Index 201